

October 20, 1999

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David N. Koffsky
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One Landmark Square, 9th Floor
Stamford, CT 06901-2682

Re: Invention Disclosure # 10991848:
Dynamic, Smart Album Page LAYouts in a Direct-Connect Printer

Dear Dave,

I have printed example photo pages to help explain how the printer chooses page layouts. Attached are 4 sets of photos. These photos are a subset of those shown in the Index Page that I have enclosed.

The arrangement of the photos for each set is different, depending on several factors (see the page entitled "Determining Page Layouts: How to Arrange Photos on the Page" in this mailing). Also refer to the last 3 pages of the Disclosure #10991848, which shows the page layout templates from which these pages were constructed.

Each set has the same 12 photos, entered in the same order, on the printer control panel. The copies value is "1" for each set as well.

Using the photo numbers from the Index Page, I chose the following 12 photos (in this order) for printing: 5, 1, 2, 4, 9, 7, 6, 10, 8, 12, 13, 15.

The 4 sets are:

1. Photo Size = 3 1/2 x 5 inch
Page Layout = Photo Album
2. Photo Size = 3 1/2 x 5 inch
Page Layout = Paper Saver
3. Photo Size = 4 x 6 inch
Page Layout = Photo Album
4. Photo Size = 3 x 4 inch
Page Layout = Photo Album

On each of the printed pages, I numbered the photos with the associated number from the Index Page.

Notice that in the sets which use Photo Album page layout (sets 1, 3, and 4), the photos appear to be in the order that they were designated by the user. Also, the photos are right-side up with respect to the other photos *on the same page*. Note that some pages are meant to be viewed vertically, while others are meant to be viewed horizontally. The viewing position of the page (vertical vs. horizontal) is chosen to fit as many photos on the page as possible, while maintaining the order and orientation of the photos.

In the set which uses Paper Saver page layout (set 2), the photos are merely printed as if they are all landscape oriented (i.e. there is no regard to the orientation of the photo). The photos on the pages do not necessarily face the same way, and the order of the photos does not necessarily appear to be in the order that the user designated.

Sincerely,

EXHIBIT 4

October 20, 1999

Wendy F. Hunter
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Re:

Invention Disclosure # 10991848:
Dynamic, Smart Album Page LAYouts in a Direct-Connect Printer

Invention Disclosure # 10991849:
User Interface to Print and Save DPOF Photos with a Direct-Connect Printer

Invention Disclosure # 10991850:
User Interface for Instant and Full-Featured Index Page Printing from a Direct-Connect Printer

Dear Dave,

Per your request, I am enclosing several documents to (1) provide further detail and explanation for the above disclosures, and (2) describe the functionality of the overall product for which the above disclosures are written.

Included are:

- ❖ Instructions for printing photos from memory cards.
- ❖ A sample Index Page.
- ❖ Flowchart of the printer's user interface (LCD on control panel), with DPOF screens highlighted.
- ❖ Sample page layouts for various photo sizes and page layout settings.
- ❖ Flowchart of how various parameters are used to determine the page layouts used for printing a job.
- ❖ List of key features of Album Page vs. Paper Saver page layouts.
- ❖ Instructions for printing photos from a DPOF File on the memory card.
- ❖ Description of how to create a DPOF file on a particular camera.
- ❖ DPOF general description.
- ❖ User's Guide for the Hewlett-Packard P1000/P1100 Printer.

Please review these documents along with the disclosure mentioned above, and contact me if you have any questions.

Sincerely,

Wendy F. Hunter

Author: JERRY POTTS at HP-SanDiego,om7
Date: 10/21/1999 8:44 AM
Normal
TO: CYNTHIA HUPPER at HP-SanDiego,om7
Subject: Supporting Documents for Ansel Invention Disclosures
----- Message Contents

Cynthia:

Can you please make copies of these materials and place in our file.
Thanks,

Jerry

Forward Header

Subject: Supporting Documents for Ansel Invention Disclosures
Author: WENDY F. HUNTER at hp-sandiego,om2
Date: 10/20/99 4:53 PM

Hello Jerry,

FYI

Yesterday, I spoke with patent attorney David Koffsky at the offices of Ohlandt, Greeley, Ruggiero & Perle, L.L.P. He had sent me some patents to read, which he thought would be relevant to the 3 invention disclosures (#10991848, #10991849, #10991850) which I submitted on the Ansel project (HP P1000/P1100 Printer).

He requested that I send some additional information about the inventions and the printer functionality in general. Today, I sent him this information via FedEx.

I am attaching the letters that I sent to him, here, for your records. I also sent him several enclosures, which I did not attach to this email. If you would like a copy enclosures as well, please let me know.

Thanks,

Wendy Hunter
x8550